

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034417.D
 Acq On : 25 Nov 2019 22:18
 Operator : SY/AP
 Sample : K5971-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 6

Manual Integrations
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 12/2/2019 10:04:33 AM

Quant Time: Nov 29 12:14:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	873349	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1744120	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1711001	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.47	95	1450616	10.08	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	64130	0.406	ppbv	92
3) Chlorodifluoromethane	2.96	51	35057m	0.322	ppbv	
4) Chloromethane	3.12	50	29678	0.462	ppbv #	82
9) Propene	2.99	41	37534m	0.776	ppbv	
10) Heptane	8.15	43	40827	0.327	ppbv	99
11) Trichlorofluoromethane	3.94	101	36320m	0.231	ppbv	
13) Ethanol	3.60	45	2824587	209.600	ppbv	95
15) Acetone	3.83	43	1272464	10.175	ppbv	100
19) Isopropyl Alcohol	3.97	45	4072997m	50.810	ppbv	
20) Methylene Chloride	4.34	84	70455	1.589	ppbv	89
26) Hexane	5.69	57	103502	1.079	ppbv #	70
30) Cyclohexane	7.15	84	17575m	0.242	ppbv	
34) 2-Butanone	5.25	43	42394	0.295	ppbv	96
35) Carbon Tetrachloride	7.04	117	10257m	0.068	ppbv	
36) Benzene	6.91	78	40263	0.231	ppbv #	89
44) 2,2,4-Trimethylpentane	7.90	57	32063m	0.101	ppbv	
52) Tetrachloroethene	11.27	164	4130m	0.055	ppbv	
53) Toluene	9.84	91	541627	2.735	ppbv	99
59) m/p-Xylene	13.01	91	47387m	0.206	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	26351m	0.173	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

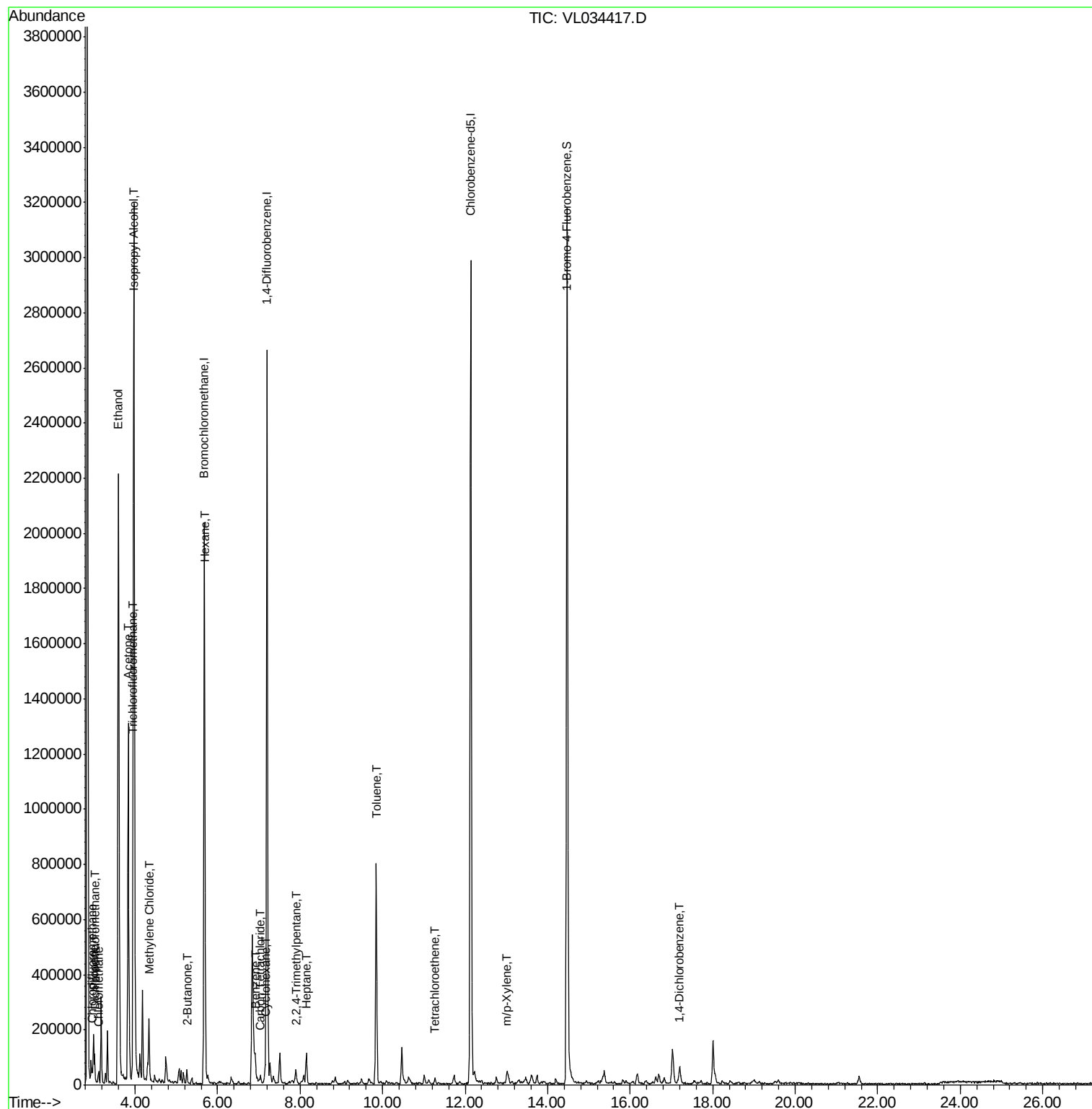
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112519\
Data File : VL034417.D
Acq On : 25 Nov 2019 22:18
Operator : SY/AP
Sample : K5971-06
Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
6

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Quant Time: Nov 29 12:14:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Instrument :

MSVOA_L

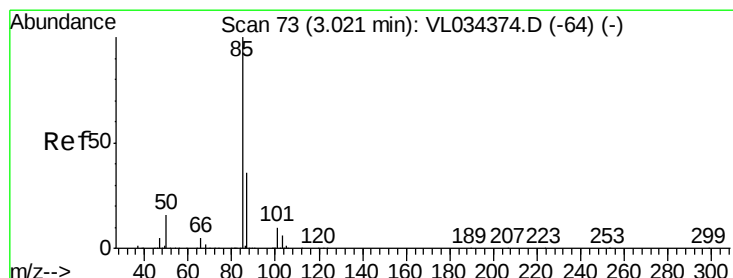
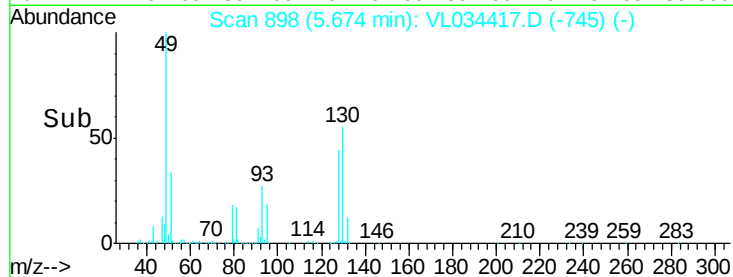
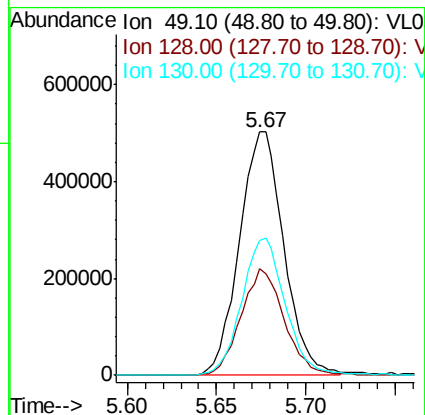
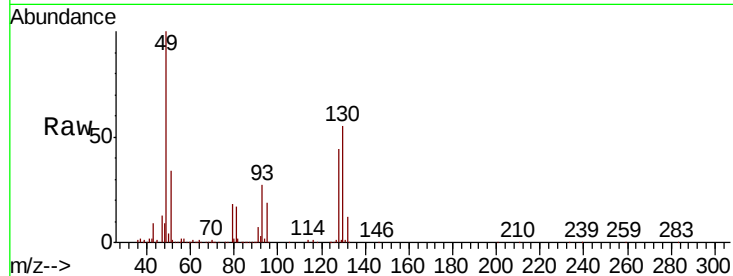
ClientSampled :

6

Tot Ion:	49	Resp:	873349
Ion	Ratio	Lower	Upper
49	100		
128	43.2	21.8	65.3
130	55.7	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.406 ppbv

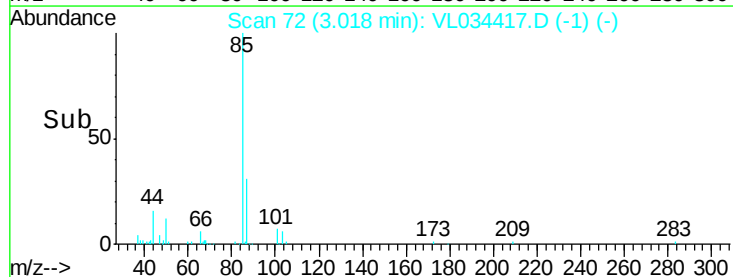
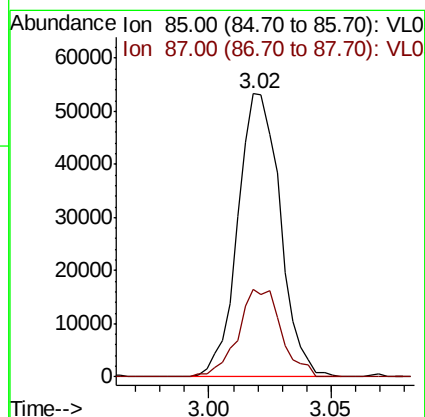
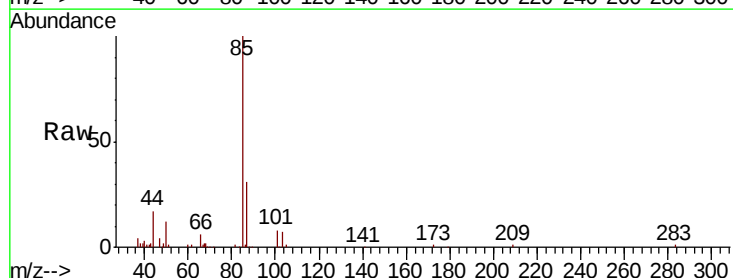
RT: 3.02 min Scan# 72

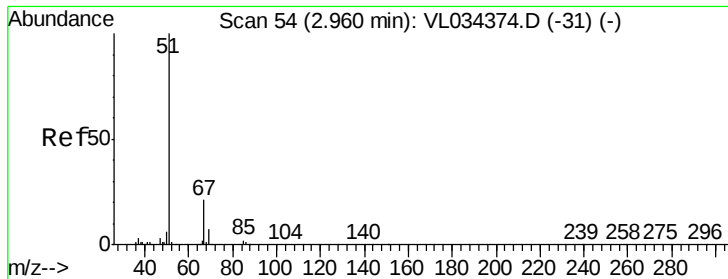
Delta R.T. -0.00 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Tgt Ion:	85	Resp:	64130
Ion	Ratio	Lower	Upper
85	100		
87	30.8	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.322 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Instrument :

MSVOA_L

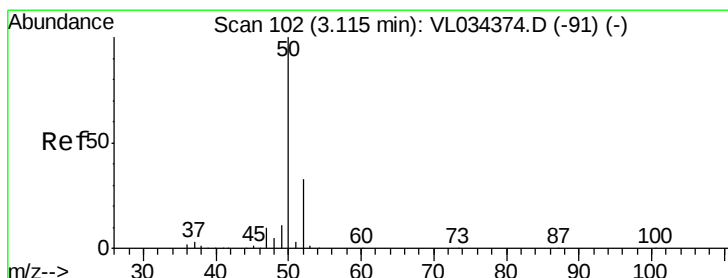
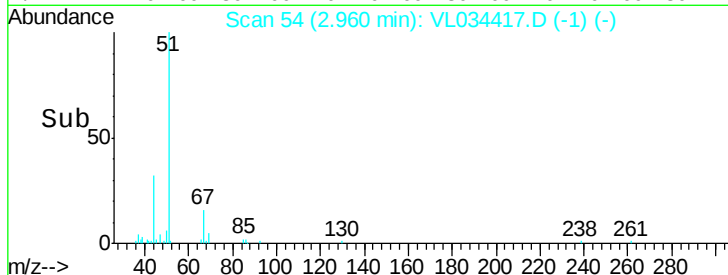
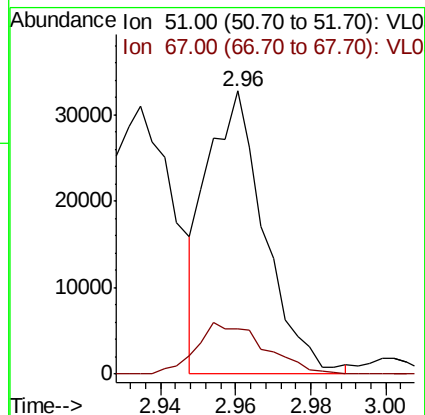
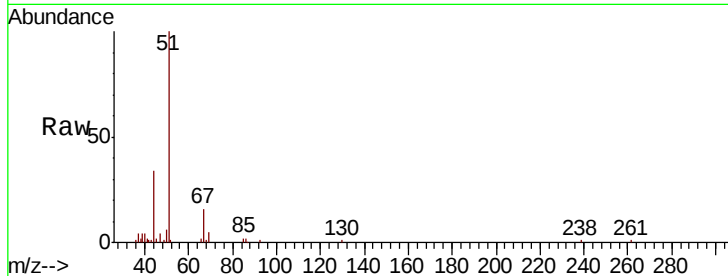
ClientSampled :

6

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.4	16.2	24.2

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#4

Chloromethane

Concen: 0.462 ppbv

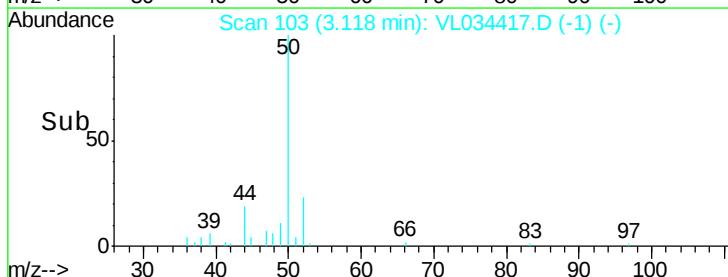
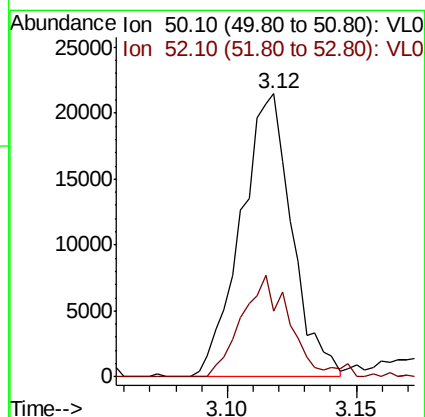
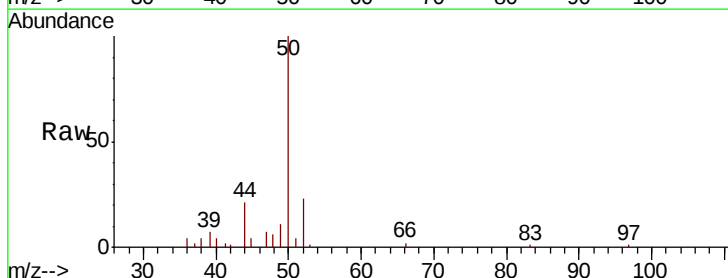
RT: 3.12 min Scan# 103

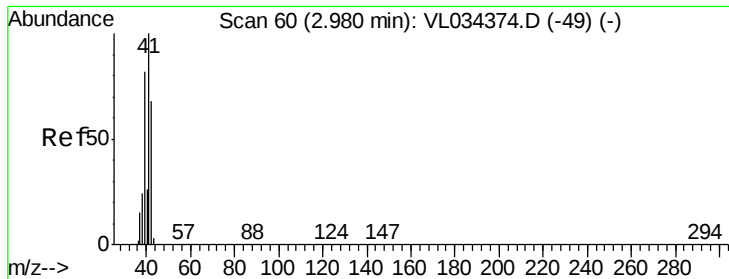
Delta R.T. 0.00 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.4	26.8	40.2





#9

Propene

Concen: 0.776 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Instrument :

MSVOA_L

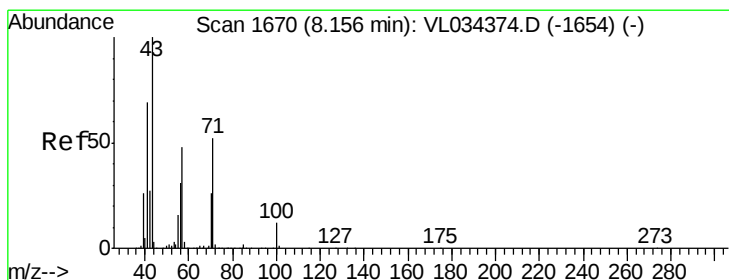
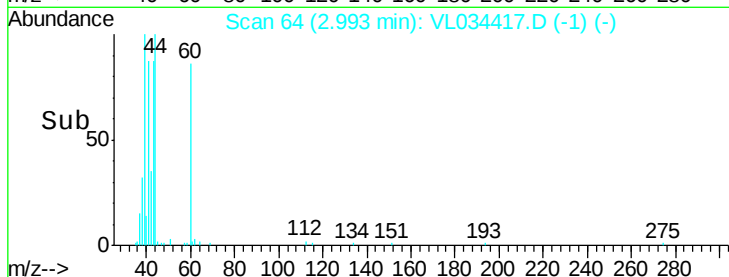
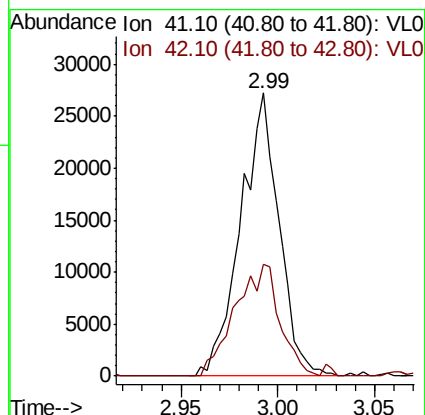
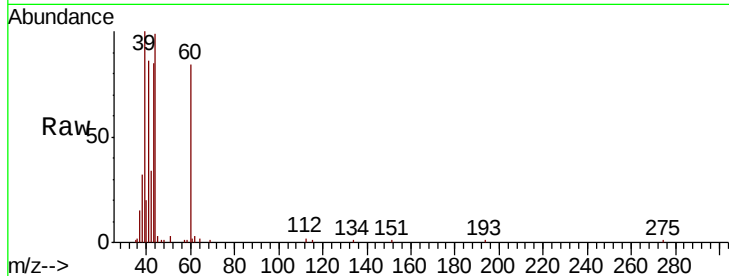
ClientSampled :

6

Tot Ion: 41 Resp: 37534
 Ion Ratio Lower Upper
 41 100
 42 133.3 54.6 82.0#

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#10

Heptane

Concen: 0.327 ppbv

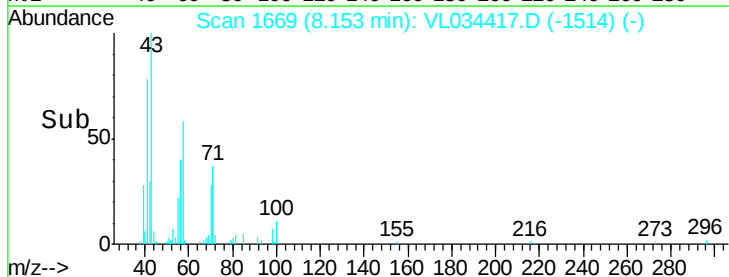
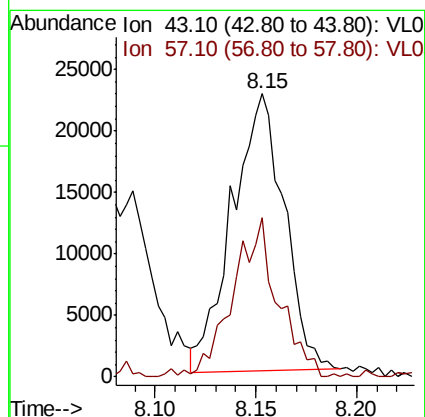
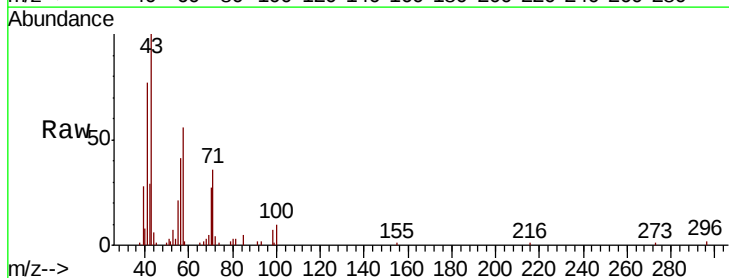
RT: 8.15 min Scan# 1669

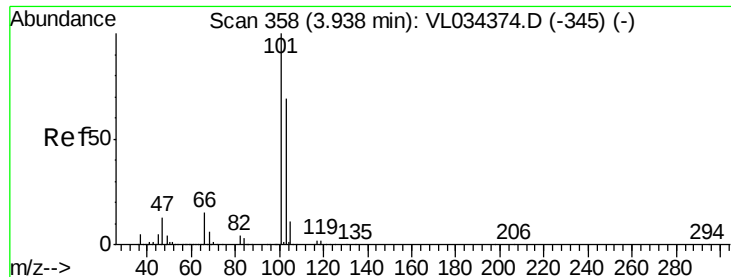
Delta R.T. -0.00 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Tgt Ion: 43 Resp: 40827
 Ion Ratio Lower Upper
 43 100
 57 49.9 40.2 60.2





#11

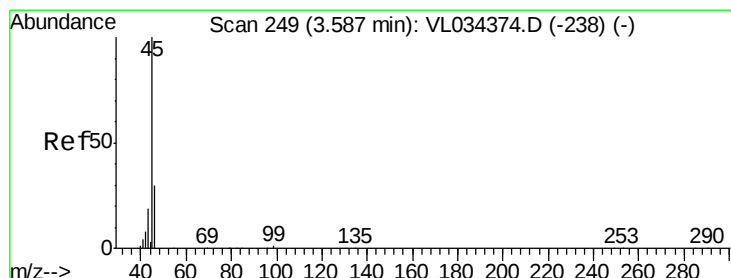
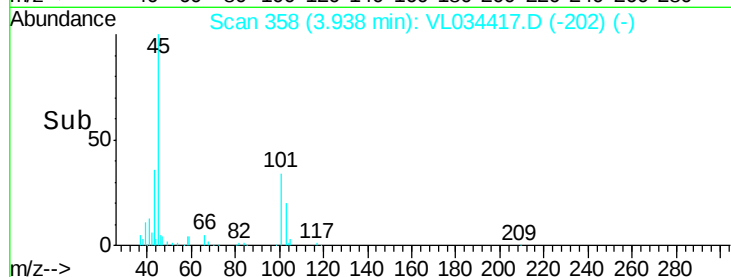
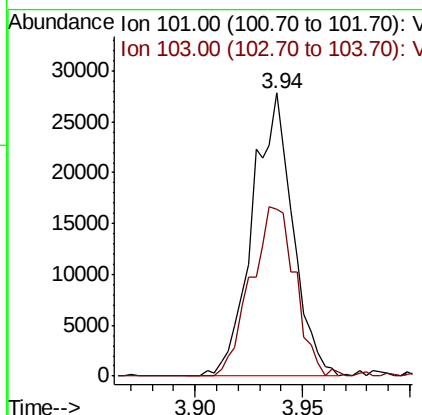
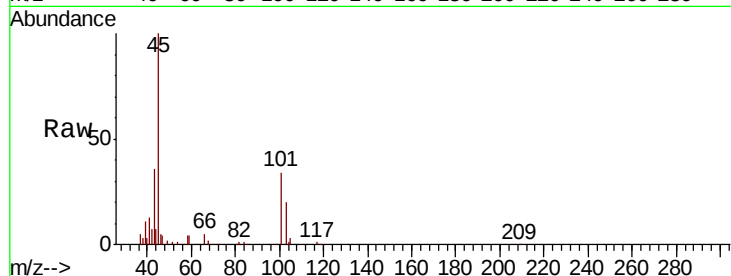
Trichlorofluoromethane
 Concen: 0.231 ppbv m
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL034417.D
 Acq: 25 Nov 2019 22:18

Instrument :
 MSVOA_L
 ClientSampled :
 6

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	59.0	55.4	83.0	

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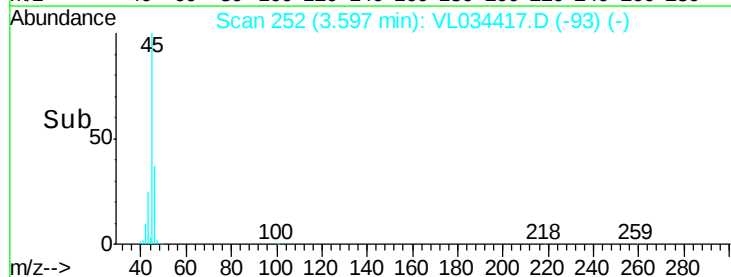
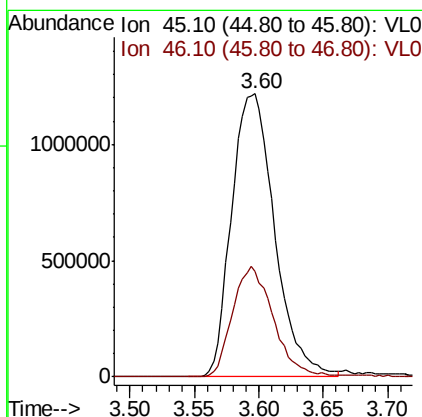
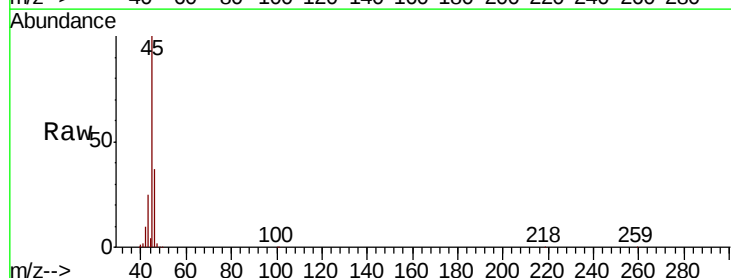
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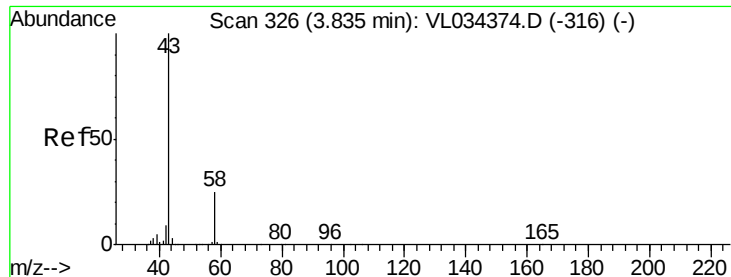


#13

Ethanol
 Concen: 209.600 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. 0.01 min
 Lab File: VL034417.D
 Acq: 25 Nov 2019 22:18

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.6	13.8	55.4	





#15

Acetone

Concen: 10.175 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Instrument :

MSVOA_L

ClientSampled :

6

Tot Ion: 43 Resp: 1272464

Ion Ratio Lower Upper

43 100

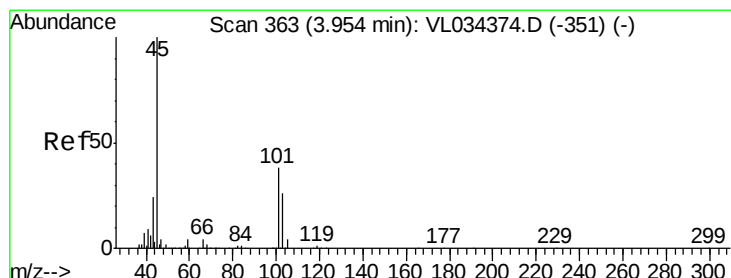
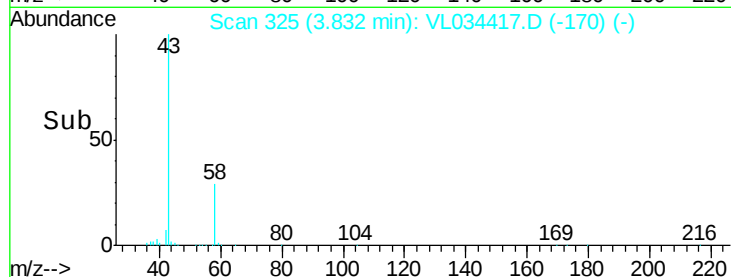
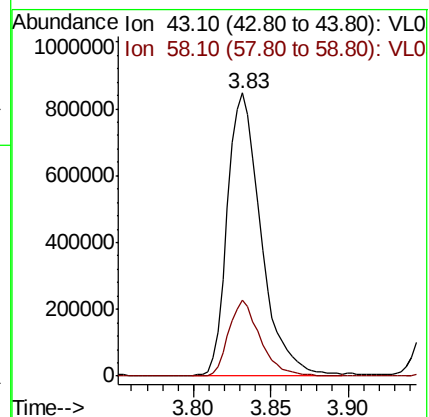
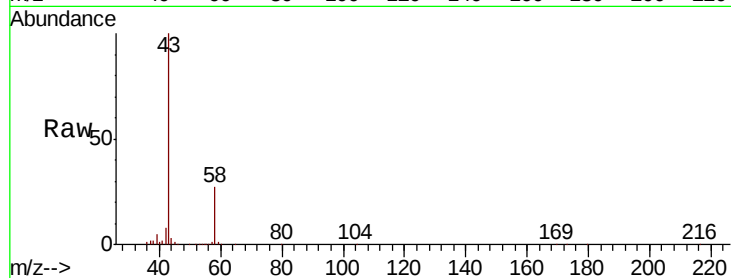
58 25.3 20.2 30.4

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 50.810 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL034417.D

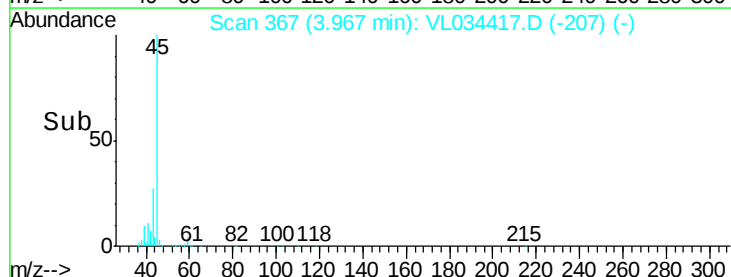
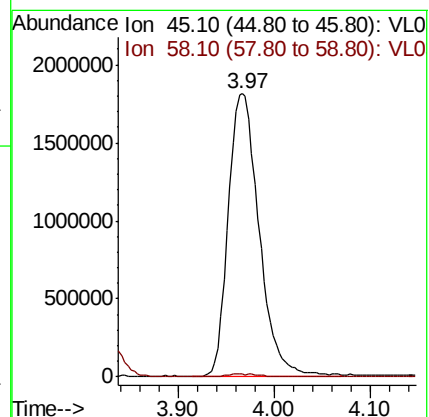
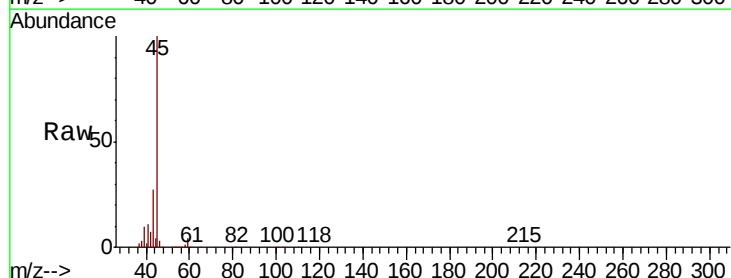
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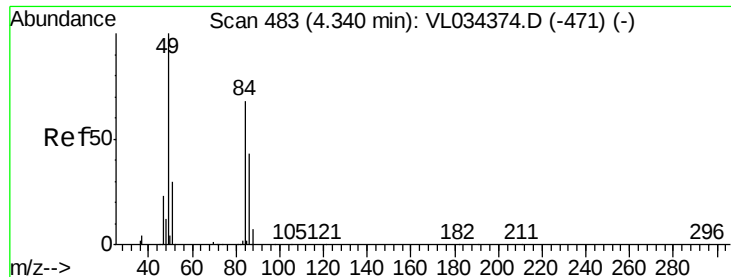
Tgt Ion: 45 Resp: 4072997

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#





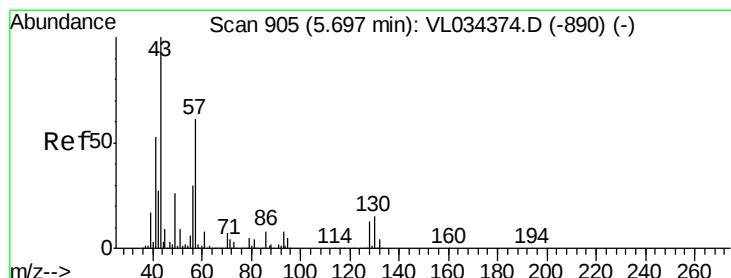
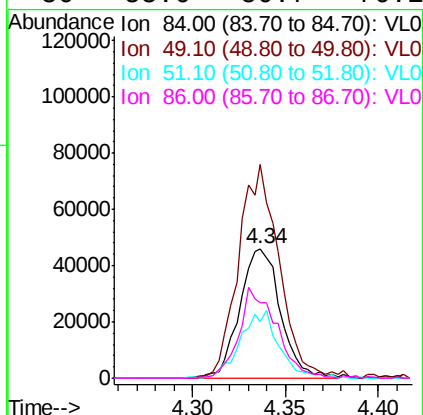
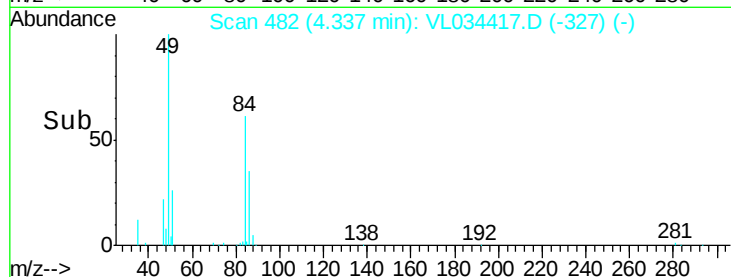
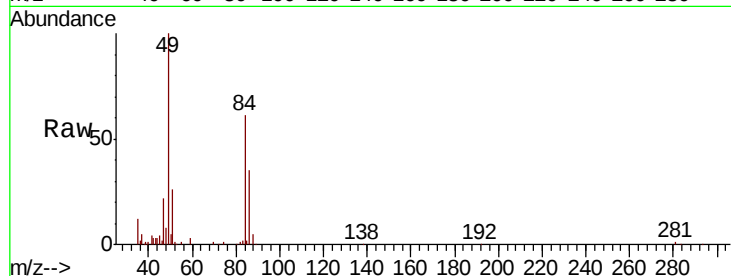
#20
Methvlene Chloride
Concen: 1.589 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Instrument :
MSVOA_L
ClientSampled :
6

Tot Ion:	84	Resp:	70455
Ion	Ratio	Lower	Upper
84	100		
49	165.0	116.8	175.2
51	43.6	35.6	53.4
86	58.6	50.7	76.1

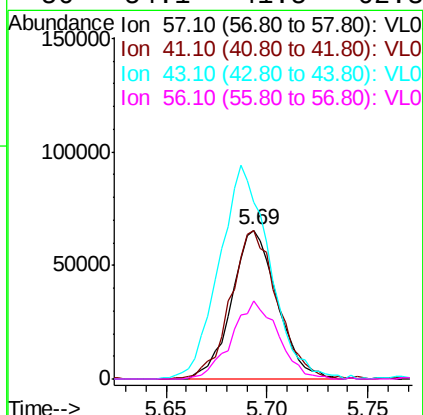
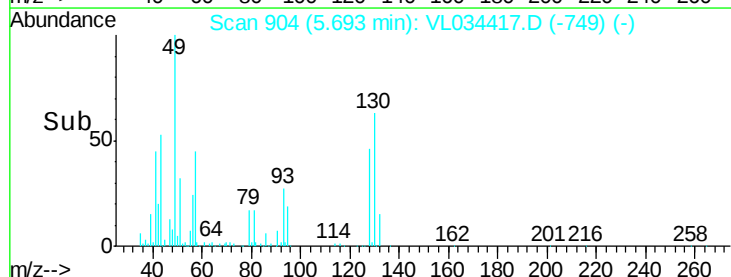
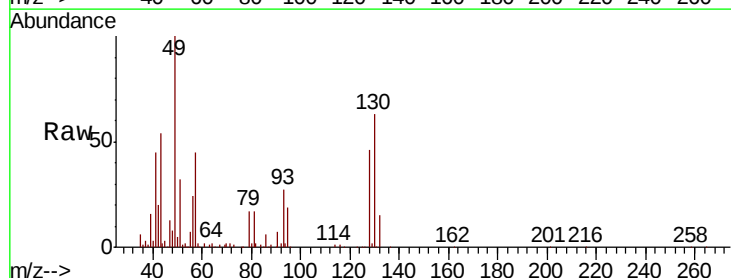
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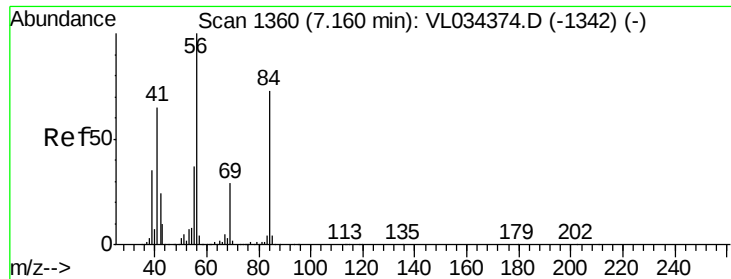
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#26
Hexane
Concen: 1.079 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Tgt Ion:	57	Resp:	103502
Ion	Ratio	Lower	Upper
57	100		
41	103.0	75.0	112.4
43	159.1	186.6	279.8#
56	54.1	41.5	62.3





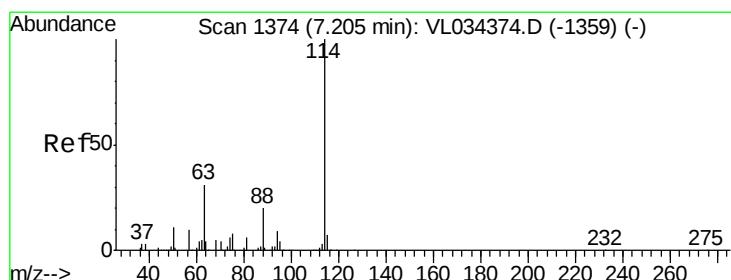
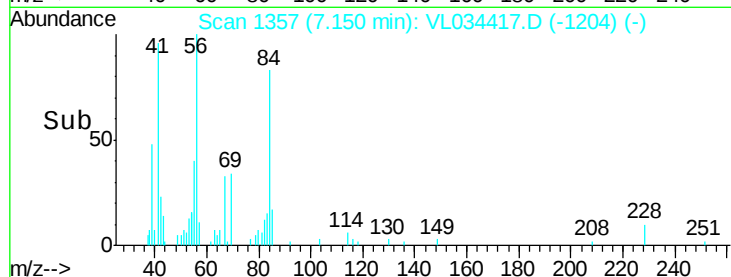
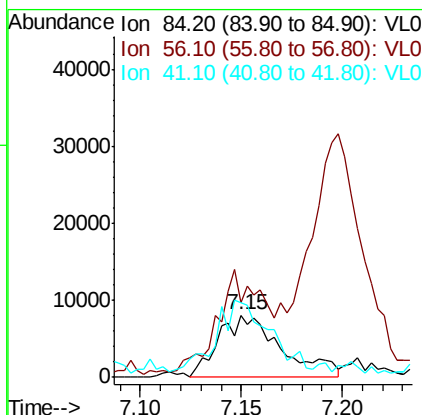
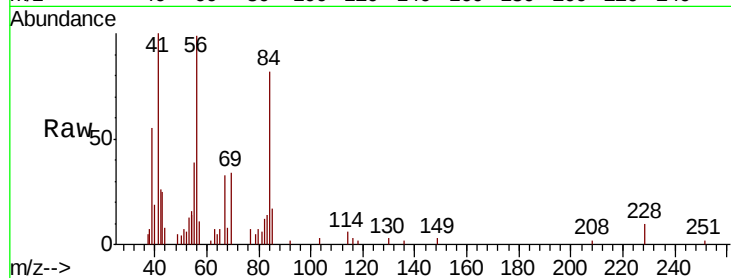
#30
Cvclohexane
Concen: 0.242 ppbv m
RT: 7.15 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Instrument :
MSVOA_L
ClientSampleId :
6

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.6	169.0#
41	113.5	73.4	110.2#

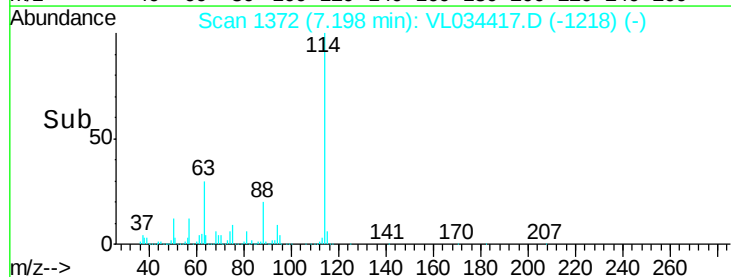
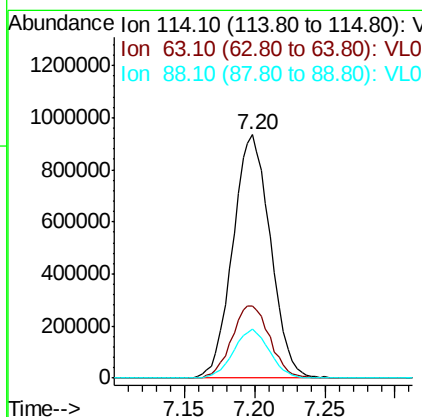
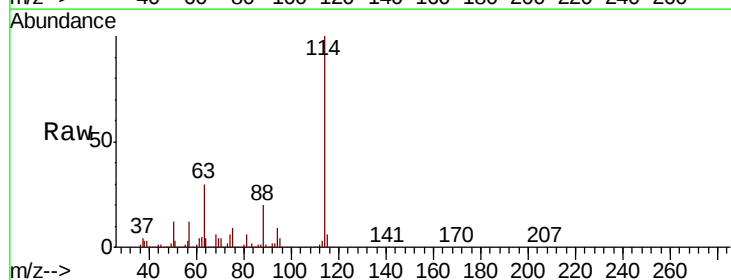
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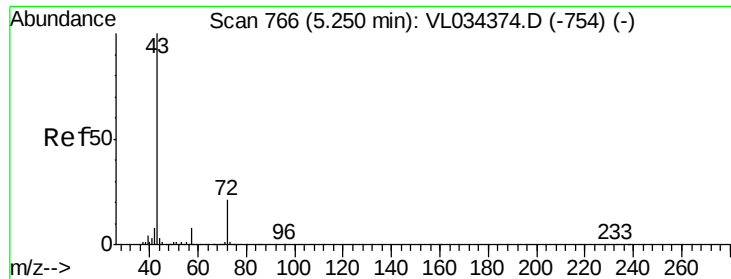
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.0	24.2	36.4
88	19.4	15.9	23.9





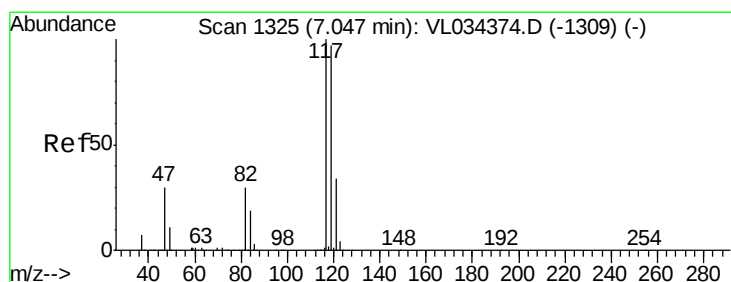
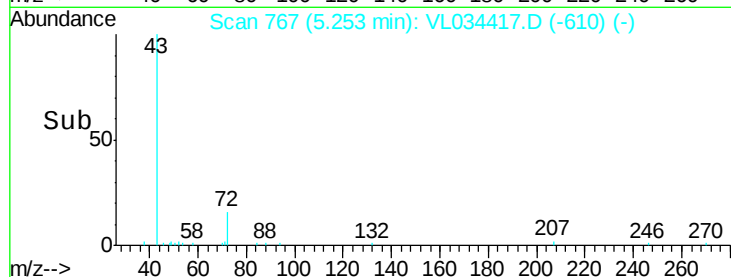
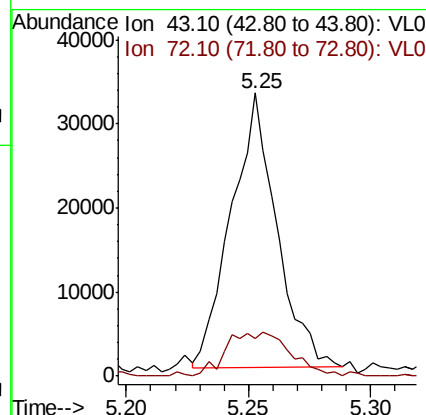
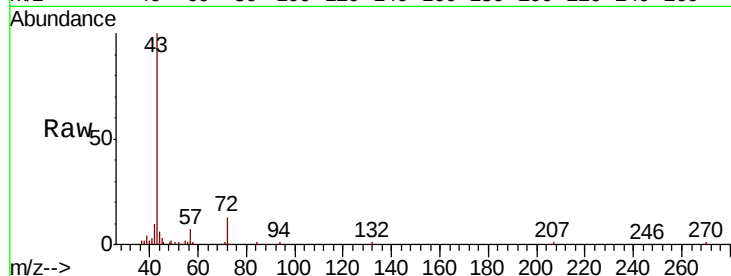
#34
2-Butanone
Concen: 0.295 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Instrument :
MSVOA_L
ClientSampleId :
6

Tot Ion	43	Resp	42394
Ion Ratio	100	Lower	Upper
72	23.4	17.0	25.6

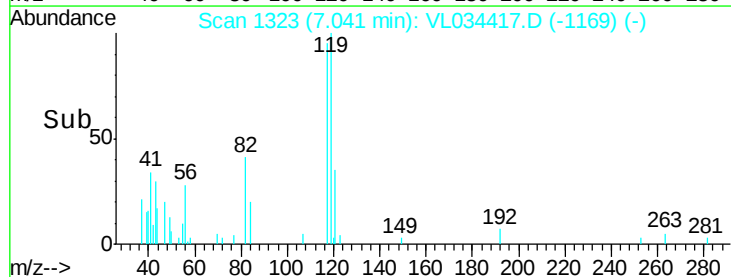
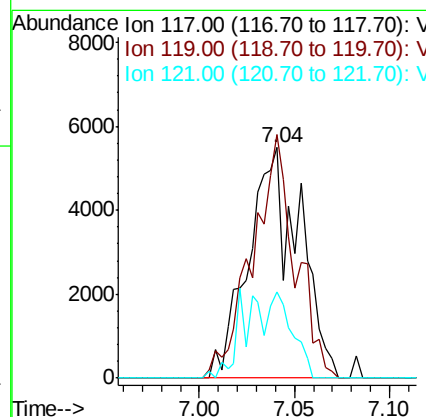
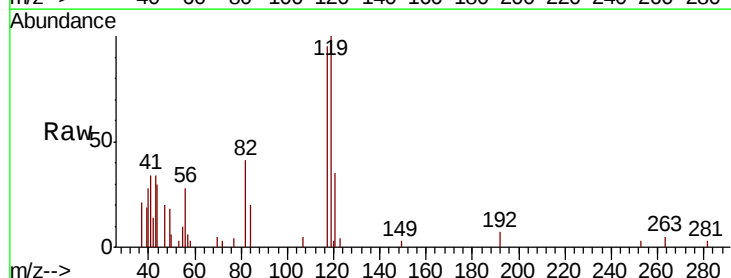
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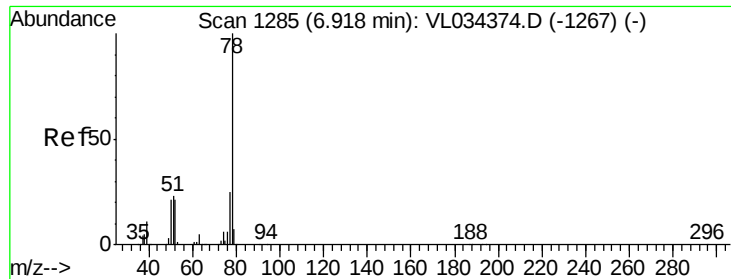
apatel
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#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Tgt Ion	117	Resp	10257
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	105.5	77.3	115.9
121	37.4	27.4	41.2





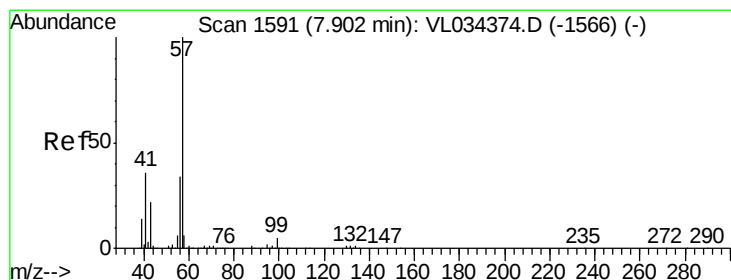
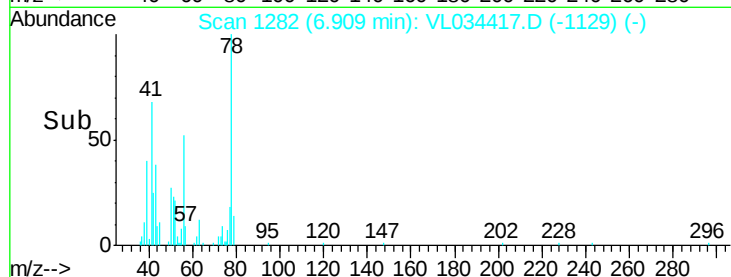
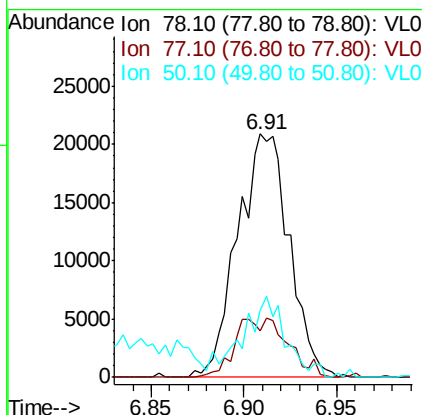
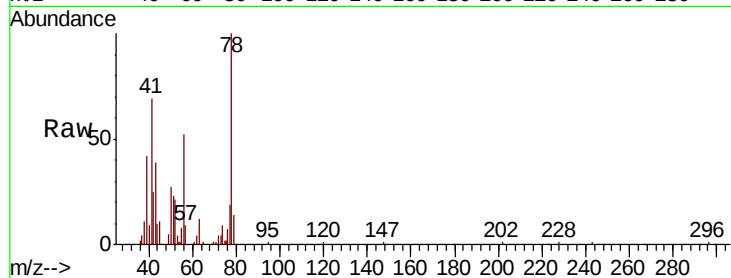
#36
Benzene
Concen: 0.231 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Instrument :
MSVOA_L
ClientSampled :
6

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.9	20.2	30.4#
50	26.0	17.1	25.7#

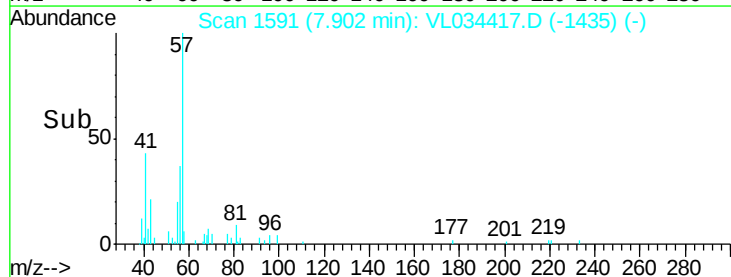
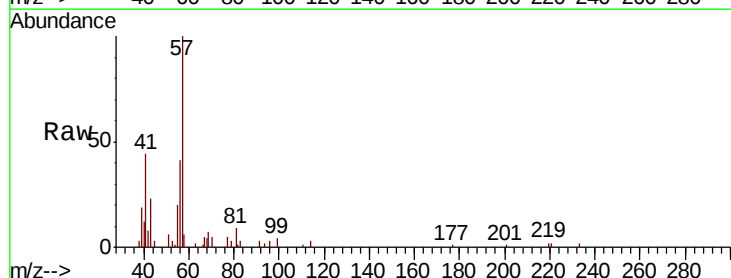
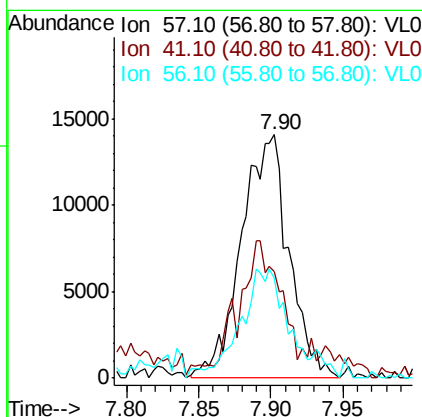
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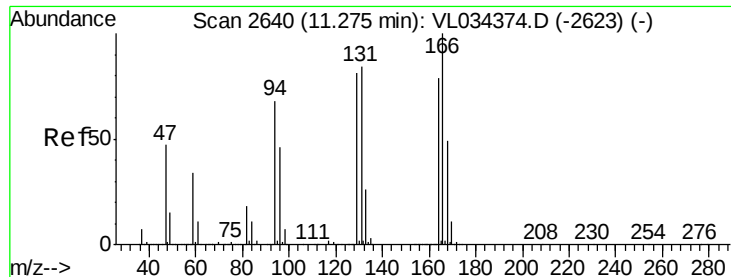
apatel
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#44
2,2,4-Trimethylpentane
Concen: 0.101 ppbv m
RT: 7.90 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	61.9	28.6	42.8#
56	48.2	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.055 ppbv m

RT: 11.27 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL034417.D

Acq: 25 Nov 2019 22:18

Instrument :

MSVOA_L

ClientSampled :

6

Tot Ion:164 Resp: 4130

Ion Ratio Lower Upper

164 100

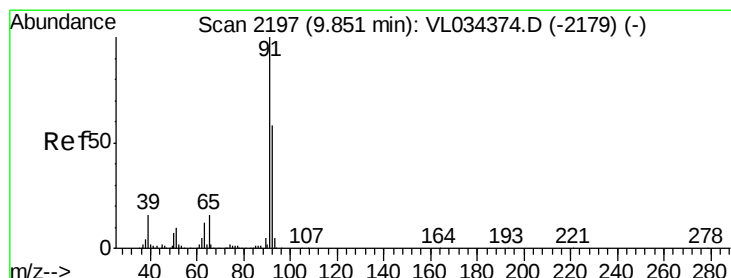
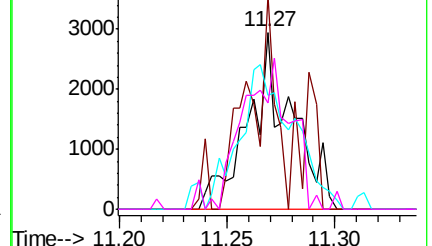
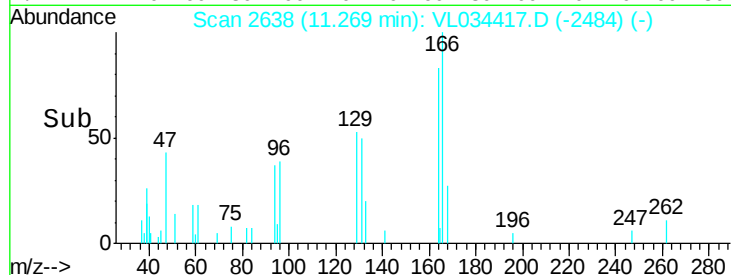
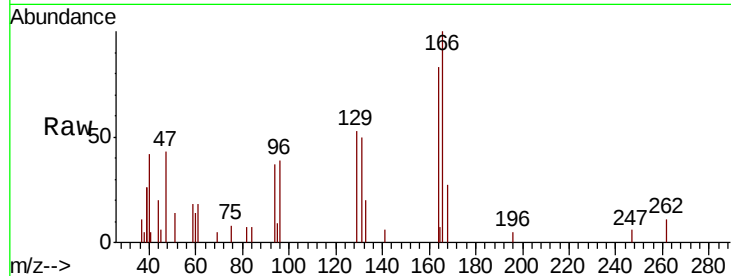
166 120.8 101.7 152.5

129 64.6 82.6 123.8#

131 59.8 85.2 127.8#

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#53

Toluene

Concen: 2.735 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034417.D

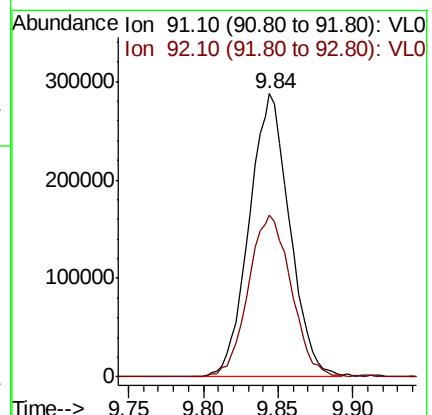
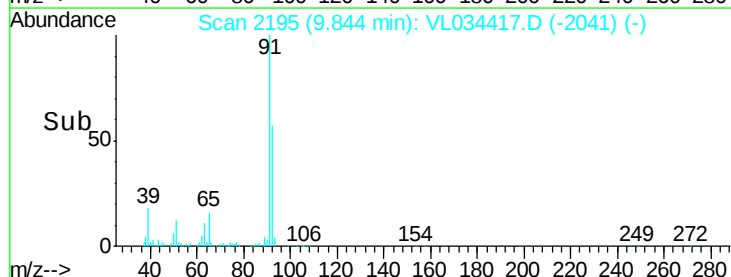
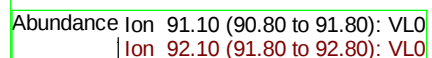
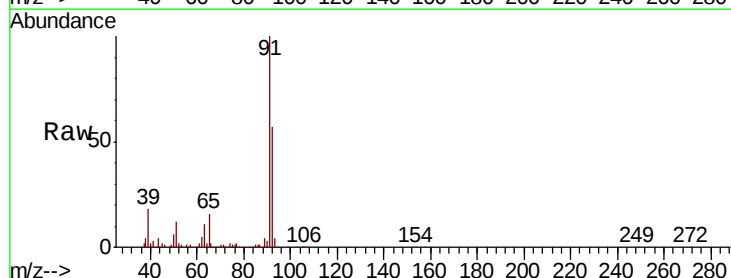
Acq: 25 Nov 2019 22:18

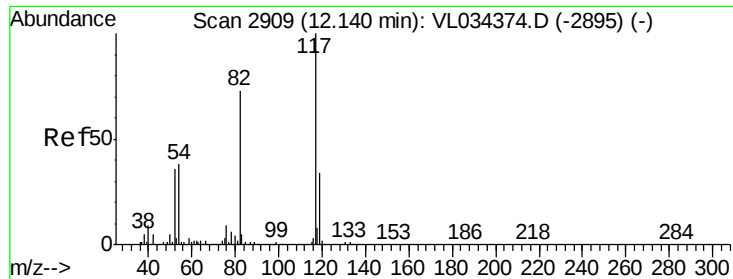
Tgt Ion: 91 Resp: 541627

Ion Ratio Lower Upper

91 100

92 60.6 47.9 71.9





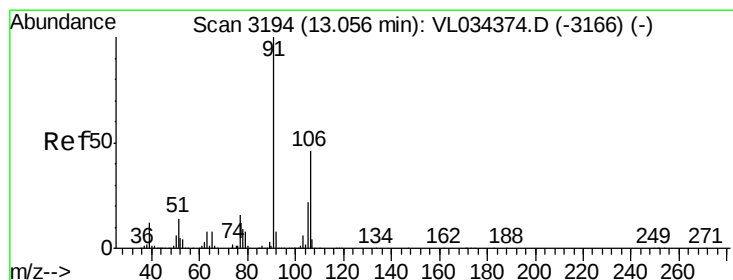
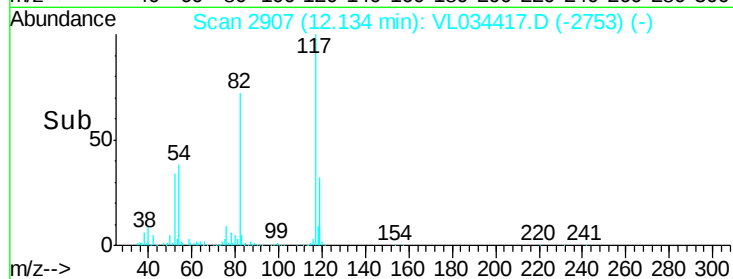
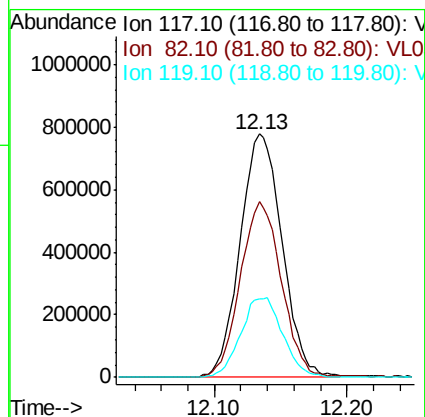
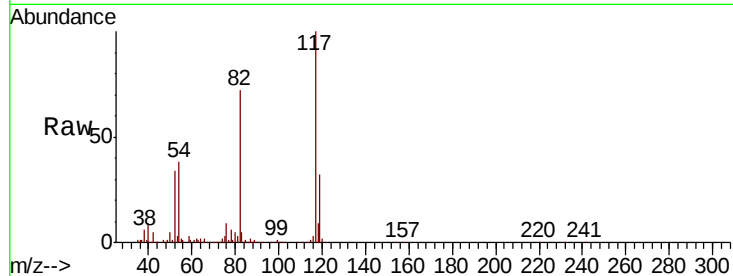
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Instrument :
MSVOA_L
ClientSampled :
6

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.9	57.5	86.3
119	32.9	25.4	38.2

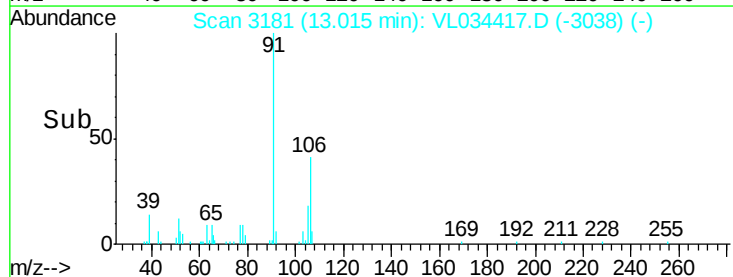
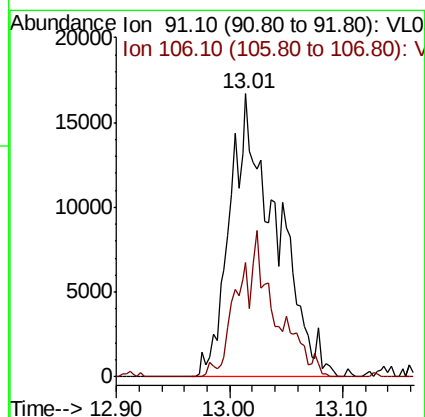
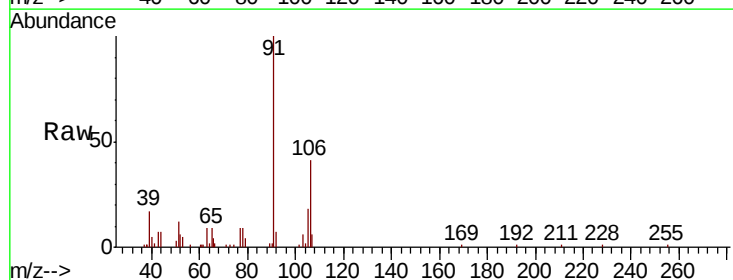
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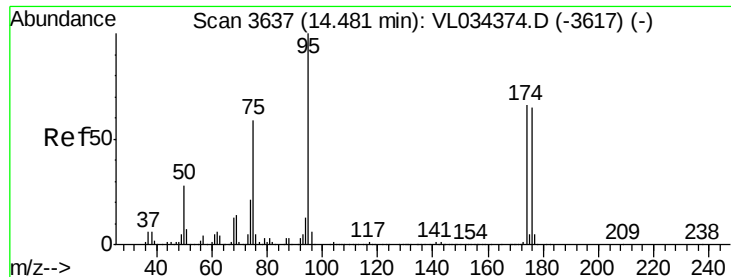
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#59
m/p-Xylene
Concen: 0.206 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034417.D
Acq: 25 Nov 2019 22:18

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.6	51.8#





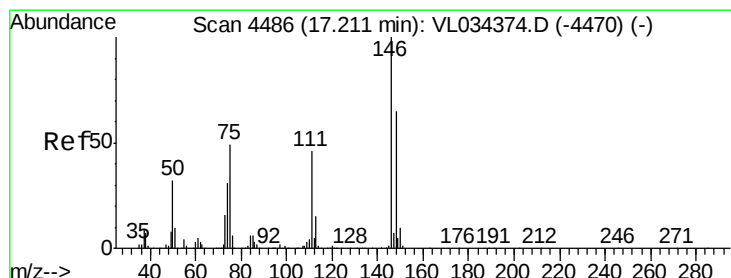
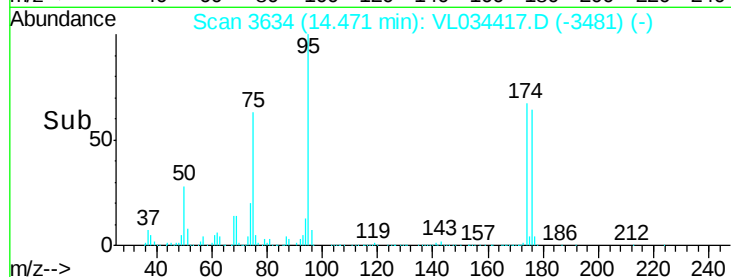
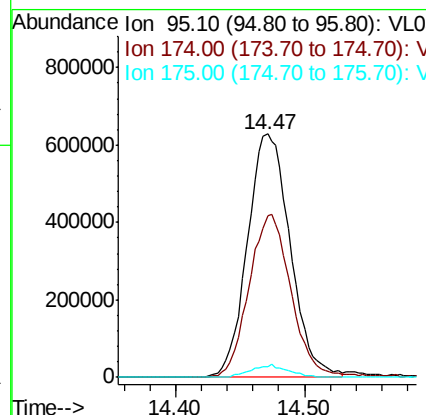
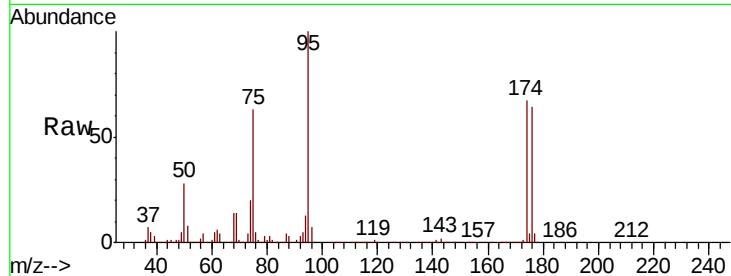
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.078 ppbv
 RT: 14.47 min Scan# 3634
 Delta R.T. -0.01 min
 Lab File: VL034417.D
 Acq: 25 Nov 2019 22:18

Instrument :
 MSVOA_L
 ClientSampleId :
 6

Tot Ion: 95 Resp: 1450616
 Ion Ratio Lower Upper
 95 100
 174 66.0 52.2 78.2
 175 4.7 3.8 5.8

Manual Integrations
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#76
 1,4-Dichlorobenzene
 Concen: 0.173 ppbv m
 RT: 17.20 min Scan# 4482
 Delta R.T. -0.01 min
 Lab File: VL034417.D
 Acq: 25 Nov 2019 22:18

Tgt Ion: 146 Resp: 26351
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.1 72.3
 148 63.9 32.9 98.6

